

Audio-Visual Library

The American Society for Surgery of the Hand announces the first videotapes produced by the Audio-Visual Library. The objective is to provide a source of audio-visual material of surgical procedures, rehabilitation techniques, and social work practices for the physician, nurse, physical and occupational therapist, and social worker. The following are now available:

NOTE:

The original Topics No. 1-8 and No. 10 have been retired from the Videotape Library. These topics are of historical value to the Society, and are no longer being offered for rental or purchase.

Topic 9: Raymond M. Curtis, M.D.
**Capsulectomy of the proximal interphalangeal joint:
The surgical correction of the finger stiff in extension
(20 min.)**

The author presents his original approach to the diagnosis and treatment of the stiff proximal interphalangeal joint. The technique of capsulectomy of the joint is demonstrated by a film of an operation on a patient. The anatomy of the digit, as well as the anatomy of the joint itself, is shown by an unusual diagrammatic technique.

Topic 11: Ronald L. Linscheid, M.D.
Traumatic instability of the wrist (40 min.)

The wrist, because of its complex two-row structure, is particularly susceptible to collapse deformities and instabilities following intracarpal fractures, dislocations, and sprains. The author presents anatomic considerations, biomechanical bases, and the diagnostic clues to this spectrum of injuries. Illustrative cases and their treatments are presented.

Topic 12: J. William Littler, M.D.
**On making a thumb: One hundred years of surgical effort
(45 min.)**

Dr. Littler discusses the principles and methods for providing a prime thumblike digit. Prior to World War II, the effort was generally laborious and too often of poor functional and aesthetic quality. Since then, more precise methods for either the free or local neurovascular transfer have been developed.

Topic 13: Richard J. Smith, M.D.
Intrinsic muscle contracture of the hand (50 min.)

This lecture represents an unusual teaching experience. The normal structure and function of the intrinsic muscles of the hand are clearly presented by photographs, cadaver dissection, and drawings. The deformities caused by contractures of these muscles after trauma, rheumatoid disease, and ce-

rebral palsy are analyzed. Dr. Smith dramatically demonstrates the surgical treatment by clinical photographs and motion pictures of a dissected specimen.

Topic 14: Paul W. Brand, M.D.
Biomechanics of hand movement (60 min.)

To restore balance to a partially paralyzed hand, the surgeon needs to understand two mechanical principles. The first is the way muscles provide tension and excursion in tendons; the second is the way tendon tension is translated into joint movement and how this can be altered by tendon transfers. Dr. Brand beautifully illustrates these two principles in this lecture and explains the principles in terms that can be understood by those without a background in engineering.

Topic 15: Daniel C. Riordan, M.D.
Congenital absence of the ulna (25 min.)

This lecture presents examples of the various degrees of congenital absence of the ulna. The author outlines the present method of treatment, and examples of such treatment, based on his total experience.

Topic 16: Daniel C. Riordan, M.D.
Congenital absence of the radius (30 min.)

The author discusses the embryologic development of the upper extremity. He reviews, historically, the various methods of treatment. This is followed by a presentation of treatment suggested by Dr. Riordan on the basis of his extensive experience with this problem.

Topic 17: Richard J. Smith, M.D.
Examination of the hand (42 min.)

Dr. Smith uses a provocative method of teaching by demonstrating on patients the techniques of evaluating muscle-tendon unit function, nerve function, vascular supply, and joint motion in the upper extremity. Clinical cases are presented to demonstrate the classic pathologic changes encountered. Questions are asked which the viewer may answer to himself before the answer is revealed on the tape. This tape can be used in conjunction with the ASSH booklet, "The Hand—Examination and Diagnosis."

Topic 18: Lee W. Milford, M.D.
The retinacular system of the digits of the hand (30 min.)

The author presents an anatomical study of the small ligaments underlying the skin at the level of the finger joints. Although these have previously been described by classic anatomists, they have never been well documented in color photographs or correlated in their relationship to one another. An attempt is made to identify and document these by color photographs of dissection of frozen specimens, which hopefully will eliminate some of the former confusion as to nomenclature and presence.

Topic 19: Alfred B. Swanson, M.D.
Flexible implant arthroplasty in the hand and upper extremity—concepts and postoperative management (40 min.)

The concept of using flexible implants as an adjunct to resection arthroplasty in the small joints of the extremities (to make its results predictable, reproducible, and durable) is now well established. The implants act as dynamic spacers to maintain the joint space and alignment while supporting the new capsuloligamentous system that is developed around them. The development and evaluation of the flexible implant resection arthroplasty method has been the subject of an ongoing research program in the author's department since 1962. Silicone implants have been designed and thoroughly tested mechanically and in laboratory animals. The use of this arthroplasty method has been evaluated in extensive retrieval studies both in the home clinic and in those patients operated on in 339 field clinics in 38 countries in the world. The long-term retrieval study now spans more than 15 years. More than 400,000 patients have been operated on in the world, with predominantly satisfactory results. The durability, range of motion, stability, pain relief, and implant-host tolerance make them acceptable for general use. The proper application of the concepts, indications, contraindications, surgical techniques, postoperative rehabilitation, and pitfalls in management of this arthroplasty method is essential for optimal results and will be discussed for each topic. This series of videotapes demonstrates the opinions of the designer of these widely recognized procedures.

Topic 20: Alfred B. Swanson, M.D.
Flexible implant arthroplasty in the metacarpal phalangeal, proximal interphalangeal, and distal interphalangeal joints (50 min.)
 See description of Topic 19.

Topic 22: Alfred B. Swanson, M.D.
Flexible implant arthroplasty in the wrist, carpal scaphoid, and lunate (40 min.)
 See description of Topic 19.

Topic 23: Adrian E. Flatt, M.D.
Syndactylism: Surgical management (25 min.)
 The incidence and classification of syndactylism of the hand are discussed and three different operations are demonstrated. The main portion of the tape describes the surgical separation of three types of syndactylism; complete, incomplete, and deepening of the thumb web space. The operative procedure for each problem is illustrated and the planning of the flaps is discussed in detail. In the incomplete syndactyly, the butterfly flap is shown, and in the thumb web deepening, the four-flap Z-plasty is used. Followups of all operations are presented to show the end result and the program concludes with a discussion of the appropriate timing for separation of the various sites of syndactylism.

Topic 24: James W. May, Jr., M.D., and Frederick N. Lukash, M.D.
Toe to hand transfer for thumb reconstruction (14 min.)

This tape discusses the technique of reconstructing a thumb by free toe transfer. It stresses the importance of joint alignment with tendon placement and intrinsic muscle reattachments. The tape has been produced at Massachusetts General Hospital where a series of 19 adults and two children have had this surgery completed successfully. Preoperative planning, operative technique, and long-term results are described and illustrated. Microsurgery technical expertise is assumed. This is a very important videotape for those surgeons performing this reconstructive operation.

Topic 25: Ralph T. Manktelow, M.D.
Hand and digit replantation (15 min.)
 This is an excellent summary of the principles of replantation surgery emphasizing planning, precise identification of critical structures, and operative requirements for a successful end result. This tape is important for those surgeons dealing with hand trauma.

Topic 26: Frederik C. Hansen, M.D.
Fundamental techniques of micro-vascular surgery (25 min.)
 This tape demonstrates on laboratory rats the basic techniques for learning the skills of microvascular anastomosis in small caliber vessels. End-to-end suture, end-to-side suture, and vein-grafting methods are demonstrated. Schematic representations aid in the clarity of suture placement. This tape is recommended for surgeons teaching or learning the art of microvascular surgery at the laboratory level. It is a primer of great usefulness for laboratory teaching.

Topic 27: Robert A. Chase, M.D.
Anatomy of the forearm and hand (60 min.)
 Dr. Robert Chase has produced another classic demonstration of gross anatomy of the forearm and hand. The dissection is done on a fresh cadaver specimen and includes the anatomy from the elbow to the finger tips. The muscular and neurovascular anatomy are superbly demonstrated. Also demonstrated are the functions of specific muscle units. This video tape is an extremely important work. It will be valuable in demonstrating gross anatomy of the upper limb to the experienced surgeon, individuals in surgical training, medical students, and therapists.

Topic 28: Viktor Meyer, M.D.
Replantation at level of the metacarpus (20 min.)
 This tape is an excellent example of replantation of a totally amputated hand through the shafts of the metacarpals sparing the thumb. It demonstrates the necessity of rigid bone fixation and includes microsurgical techniques for vessel and nerve repair. It is a perfect teaching tape for all levels of surgical experience.

Topic 29: Graham D. Lister, M.D.
Flexor tendon repair (20 min.)

Dr. Lister has provided the practicing hand surgeon with a lucid description of the exacting technique of Zone 2 flexor tendon repairs. Tendon sheath exposure, retrieval of severed tendons, choice and placement of suture, as well as the technique of single and combined window repairs are demonstrated on freshly prepared cadaveric specimens. Produced in 1987.

**Topic 30: Charles D. Jennings, M.D. and
Chris P. Tountas, M.D.**

Fractures and dislocations of the hand (15 min.)

This videotape provides an overview on the management of fractures and dislocations of the hand and is aimed at preparing the primary care physician or nurse to provide initial management. A review of terminology and functional anatomy is given. The technique of physical examination is described along with recommendations for obtaining appropriate X-ray views. Produced in 1987.

Topic 31: Dieter Buck-Gramcko, M.D.
Pollicization (18 min.)

In this tape, Dr. Buck-Gramcko shares his unparalleled experience in the treatment of congenital absence of the thumb. The author uses segments of an operative procedure to describe critical facets of pollicization, which include skin incisions, flap contouring, protection of neurovascular structures, creation of the new CMC joint, and optimal positioning of the finger. A ten-year follow-up case is also presented. This tape presents caveats which are not obtainable in published material and should be of value to all those interested in hand surgery. Produced in 1987.

Topic 32: Robert M. McFarlane, M.D.
Dupuytren's contracture (30 min.)

This tape is comprised of two main sections. The first describes the pathologic anatomy and various patterns of deformity in Dupuytren's disease. The second section presents three operative cases and describes Dr. McFarlane's approach to Dupuytren's contracture in patients with single finger involvement, extensive disease, and special cases requiring fasciotomy. This tape is aimed mainly at the practicing hand surgeon. Produced in 1987.

Topic 33: Hanno Millesi, M.D.
Basic considerations for peripheral nerve repair and grafting (30 min.)

Dr. Millesi has updated and expanded his classic videotape on peripheral nerve grafting. He introduces a new system for classifying the degrees of nerve scarring at the time of surgery, and uses this as the basis for clinical treatment. He also reviews the mechanical and physiologic bases for various techniques of nerve repair and grafting. Knowledge of this

material is essential for the surgeon treating peripheral nerve injuries. Produced in 1987.

Topic 34: Peter R. Carter, M.D.
Herbert screw fixation of scaphoid nonunion (18 min.)

Dr. Carter demonstrates the techniques of open reduction and internal fixation of the "humpback" scaphoid nonunion with the Herbert screw. Review of this tape will greatly facilitate the intraoperative use of the Herbert screw instrumentation and will also be of interest to surgeons interested in the volar approach to the scaphoid. Produced in 1987.

Topic 35: A. Lee Dellon, M.D.
Evaluation of sensibility and re-education of sensation in the hand

In this videotape, Dr. Dellon demonstrates techniques for evaluating sensibility in the hand. The underlying neurophysiology and histology that provide the basis for these techniques is interspersed in animated sequences with the clinical sequences. Sensory evaluation techniques are demonstrated. The pathophysiology of altered sensation after nerve injury is illustrated. The techniques for, and results of, sensory re-education are depicted also in animated and clinical sequences. The videotape is intended for health care individuals at all levels of training, including therapists as well as hand surgeons.

Format. Programs are available on commercial ¾ inch video cassette tapes and retail ½ inch (VHS or BETA-MAX).

How to obtain the programs. Please contact the American Society for Surgery of the Hand, 3025 S. Parker Rd., Suite 65, Aurora, CO 80014 or phone (303)755-4588 to obtain current videotape information and order forms.

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